

SAFETY DATA SHEET

Product Name: Everflon™ PFA Fluoroplastic Resin

Grade/Type: PF430

Revision Date: 10/04/2026

Supplier: Wuhan Everflon Fluoropolymers Co., Ltd.

SECTION 1. IDENTIFICATION

- **Product Name:** Everflon™ PFA Fluoroplastic Resin PF430
- **Recommended Use:** Resin for moulding and/or extrusion (tubing, valves, chemical linings, high-purity semiconductor components, wire and cable insulation).
- **Restrictions on Use:** For industrial use only. Do not use in medical applications involving permanent implantation in the human body or contact with internal body fluids or tissues.
- **Manufacturer/Supplier:**
Wuhan Everflon Fluoropolymers Co., Ltd.
Wuhan, Hubei Province, China
- **Emergency / Telephone Number:** 0086-185-7168-9228

SECTION 2. HAZARDS IDENTIFICATION

- **GHS Classification (29 CFR 1910.1200):** Not a hazardous substance or mixture.
- **GHS Label Elements:** No hazard pictogram, signal word, hazard statements, or precautionary statements required.
- **Other Hazards:**
 - Thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flu-like symptoms (chills, fever, cough, chest tightness, muscle aches), especially when smoking contaminated tobacco.
 - Contact with molten polymer causes severe thermal burns.
 - Spilled pellets create a serious slipping hazard.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Substance / Mixture:** Polymer (Perfluoroalkoxy alkane / PFA copolymer).
- **Components:** Contains no hazardous ingredients requiring disclosure under OSHA HazCom 2012.

SECTION 4. FIRST AID MEASURES

- **If Inhaled:** Move to fresh air. If breathing is difficult or symptoms occur, get medical attention.
- **In Case of Skin Contact:** Wash with water and soap as a precaution. In case of

contact with molten material, immediately cool skin with plenty of cold water. Do not peel polymer from skin. Get immediate medical attention.

- **In Case of Eye Contact:** Flush eyes with clean water for at least 15 minutes. Get medical attention if irritation persists.
- **If Swallowed:** If swallowed, DO NOT induce vomiting. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.
- **Most Important Symptoms and Effects:** Polymer fume fever (flu-like symptoms); thermal burns.
- **Notes to Physician:** Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, carbon dioxide (CO₂), dry chemical.
- **Unsuitable Extinguishing Media:** None known.
- **Specific Hazards During Firefighting:** Exposure to combustion products may be a hazard to health.
- **Hazardous Combustion Products:** Hydrogen fluoride (HF), carbonyl difluoride (COF₂), potentially toxic fluorinated compounds, aerosolized particulates, carbon monoxide (CO), carbon dioxide (CO₂).
- **Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus (SCBA) and full protective equipment. Wear neoprene gloves when handling fire debris.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Follow safe handling advice (Section 7) and PPE recommendations (Section 8). Spilled pellets on the floor present a severe slip hazard.
- **Environmental Precautions:** Avoid release to the environment. Prevent leakage into waterways and sewers.
- **Methods for Containment and Cleaning Up:** Sweep up or vacuum spillage and collect in a suitable labeled container for disposal or recycling.

SECTION 7. HANDLING AND STORAGE

- **Technical Measures & Ventilation:** Use only with adequate ventilation. Provide exhaust ventilation at machines operating above melting point.
- **Advice on Safe Handling:** Handle in accordance with good industrial hygiene. Do not breathe decomposition products. Take care to prevent spills. Prohibit smoking in work areas to avoid contamination of cigarettes with fluoropolymer dust. Wash hands thoroughly before breaks and after handling.
- **Conditions for Safe Storage:** Keep in properly labeled, tightly closed containers. Store in a cool, dry, well-ventilated location away from strong oxidizing agents.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Ingredients with Workplace Control Parameters:** Contains no substances with occupational exposure limit values.
- **Occupational Exposure Limits of Decomposition Products:**
 - *Hydrogen fluoride* (CAS 7664-39-3): ACGIH TLV: TWA 0.5 ppm, Ceiling 2 ppm. OSHA PEL: TWA 3 ppm.
 - *Carbonyl difluoride* (CAS 353-50-4): ACGIH TLV: TWA 2 ppm, STEL 5 ppm. OSHA PEL: TWA 2.5 mg/m^3 (as F).
- **Engineering Measures:** Ensure adequate local exhaust ventilation at hot processing machines to maintain airborne concentrations below exposure limits.
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Where concentrations are above recommended limits, use NIOSH/MSHA-approved air-purifying or positive-pressure supplied air respirators.
 - **Hand Protection:** Heat-resistant gloves when handling molten material.
 - **Eye Protection:** Safety glasses with side shields.
 - **Skin and Body Protection:** Protective workwear; wash skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Solid pellets, granules (White / Translucent)
- **Odor:** Odorless
- **pH:** No data available
- **Melting Point/Freezing Point:** $>300^{\circ}\text{C}$ ($>572^{\circ}\text{C}$ (F))
- **Flash Point / Evaporation Rate:** Not applicable
- **Flammability (solid, gas):** Not classified as a flammability hazard; not expected to form explosive dust-air mixtures.
- **Density:** 2.1 - 2.2 g/cm^3
- **Water Solubility:** Insoluble
- **Auto-ignition Temperature:** High thermal stability ($>500^{\circ}\text{C}$)
- **Oxidizing Properties:** Not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

- **Reactivity:** Not classified as a reactivity hazard.
- **Chemical Stability:** Stable under normal conditions.
- **Possibility of Hazardous Reactions:** Can react with strong oxidizing agents. Hazardous decomposition occurs at elevated temperatures ($>380^{\circ}\text{C}$ - 400°C).
- **Conditions to Avoid:** Excessive overheating beyond processing limits.
- **Incompatible Materials:** Strong oxidizing agents, molten alkali metals.
- **Hazardous Decomposition Products:** Hydrogen fluoride, carbonyl difluoride, carbon monoxide, carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

- **Likely Routes of Exposure:** Skin contact, eye contact, inhalation of process fumes.
- **Acute Toxicity:** Not classified based on available information.
- **Skin/Eye Irritation & Sensitization:** Not classified based on available information.
- **Carcinogenicity:** No component present at \ge 0.1% is identified as a known, probable, or confirmed carcinogen by IARC, OSHA, or NTP.

SECTION 12. ECOLOGICAL INFORMATION

- **Ecotoxicity & Persistence:** Insoluble in water. Biologically inert, not readily biodegradable. No known environmental bioaccumulation.

SECTION 13. DISPOSAL CONSIDERATIONS

- **Waste from Residues:** Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer. Mechanical recycling is preferred. Incineration only in approved facilities equipped with acidic gas scrubbers (HF).
- **Contaminated Packaging:** Empty containers should be taken to an approved site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

- **UNRTDG / IATA-DGR / IMDG-Code / 49 CFR:** Not regulated as a dangerous good.

SECTION 15. REGULATORY INFORMATION

- **TSCA:** All components are listed on or compliant with the TSCA Inventory.
- **SARA 311/312 / SARA 313:** No SARA Hazards. Contains no chemicals exceeding Section 313 de minimis levels.
- **California Prop. 65:** WARNING: This product can expose you to trace environmental background levels of chemicals including Pentadecafluorooctanoic acid (PFOA) known to cause cancer or reproductive harm. (Note: Not intentionally manufactured with PFOA).

SECTION 16. OTHER INFORMATION

- **NFPA 704:** Health: 0, Flammability: 1, Instability: 0.
- **HMIS® IV:** Health: 0, Flammability: 1, Physical Hazard: 0.